Sheet 1

of 2

PTO/SB/08A (08-03)

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Attorney Docket Number MATS:027A

				DOCUMENTS	
Examiner initials*	Cite No. ¹	Number-Kind Code ² (************************************	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, When Relevant Passages or Relevar Figures Appear
<u> </u>	Α	^{US-} 5,751,075	05-12-1998	KWON et al.	
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Cite No.1	Foreign Patent Document	Publication Oate	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages	
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Translation is attached.

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PAGE 05

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Substitute for form 1449/PTO				Complete If Known				
0-1-2,10	,			Application Number	Shinichiro KAWANO et			
INF	ORMATION	DIS	SCLOSURE	Filing Date	August 6, 2003			
STA	TEMENT E	3Y A	PPLICANT	First Named Inventor	Shinichiro KAWANO et al.			
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Sheet	2	of	2	Attorney Docket Number	MATS:027A			

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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Patent Abstracts of Japan

PUBLICATION NUMBER

62296758

PUBLICATION DATE

24-12-87

APPLICATION DATE

13-06-86

APPLICATION NUMBER

61137616

APPLICANT: SEIKO EPSON CORP;

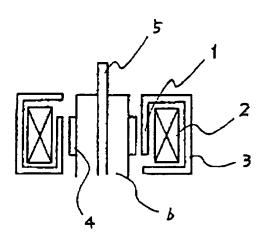
INVENTOR: TOMITA TADAHARU;

INT.CL.

H02K 37/00 H02K 1/02

TITLE

STEP MOTOR



ABSTRACT :

PURPOSE: To improve effective permeability in a high frequency domain by using a composite material consisting of powder ferromagnetic material, resin and so on for e sinking comb and a yoke.

CONSTITUTION: Atomized iron powder of average particle diameter 200µ is treated by silane coupling, dried and heated to improve its adhesion, and thereafter kneaded with 10 volume percent epoxy resin to be granulated into particles of diameter 0.2-1mm. These granules are packed into a press die for pressing after their removal from the die, cured at 150°C to be assembled into a sinking comb 1 and a yoke 3. A thickness of plate material of the sinking comb 1 and yoke 3 used in a PM-type step motor is 1mm or thereabout and said plate is composed of powder composite material of diameter about 0.1 mm. As a result, an eddy current loss can be reduced to to about 10-5 of the former one.

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Datum/Date 22.06.05

Zeichen/Ref./Réf.

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Anmeldung Nr/Application No./Demande nr/Patent Nr /Patent No./Brevet nr.

00917295.8-1528-JP0002382

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above—mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

REFUND OF THE SEARCH FFF

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 00 91 7295

		DOCUMENTS CONSID	ERED TO BE	RELEVANT		
	Category	Citation of document with of relevant pas	indication, where app sages	oropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (InLCI.7)
Ø	X	US 5 751 075 A (KW0 12 May 1998 (1998-0 * column 2, line 59 * figures 1A-5 *	J5-12)	, line 5 *	1-17	H02K33/16
(a)	X	PATENT ABSTRACTS OF vol. 012, no. 196 (7 June 1988 (1988-08 JP 62 296758 A (\$24 December 1987 (1* abstract *	(E-618), 06-07) SEIKO EPSON C	CORP),	18	TECHNICAL FIELDS SEARCHED (Int.Cl.7) H02K
2		The supplementary search reported of claims valid and available and avai				
4004)		Place of search Berlin	Onto of comp 9 June	e 2005	Fous	Exampler Sier, P
EPO FORM ISCIB 03.82 (P04C04)	X : partice Y : partice docum A : techno O : non-v	TEGORY OF CITED DOCUMENTS ularly relevant if taken alone ularly relevant if combined with another of the same category ological background written disclosure lediate document	er	T: theory or principle of E: earlier patent document cited in t L: document cited for document of the sam document	underlying the Imment, but publish the application other reasons	vention ned on, or

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EP 00 91 7295

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